

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XE MO

(Class of Station)

WB9XVO

(Call Sign)

0300-EX-ST-2004

(File Number)

NAME Lockheed Martin Corporation

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Testing to verify correct transponder and interrogator operation of the AN/APX-113 AIFF system for the Block 60 aircraft.

Station Locations

- (1) MOBILE: States of AR, LA, NM, OK, TX and within the two rectangles defined by 30 N, 98 W; 30 N, 94 W; 26, 30' N, 98 W; 26, 30' N, 94 W; and 30 N, 94 W; 30 N, 89 W; 28 N, 94 W; 28 N, 89 W.

Frequency Information

MOBILE: States of AR, LA, NM, OK, TX and within the two rectangles defined by 30 N, 98 W; 30 N, 94 W; 26, 30' N, 98 W; 26, 30' N, 94 W; and 30 N, 94 W; 30 N, 89 W; 28 N, 94 W; 28 N, 89 W.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M00M1D	2500 W (ERP)	
1030 MHz	MO	7M50M1D	2500 W (ERP)	
1090 MHz	MO	7M00M1D	500 W (ERP)	
1090 MHz	MO	6M90M1D	500 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Testing is limited to one aircraft conducting interrogations.

This authorization effective June 24, 2004 and
will expire 3:00 A.M. EST October 21, 2004

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Special Conditions:

- (3) Interrogations must only be initiated by the pilot through a "push to interrogate" mode of operation for Modes 1, 2 3A, and 3C, with the number of times the pilot initiates interrogations being kept to an absolute minimum.
- (4) All Mode-4 interrogations must be initiated by the pilot through a "push to interrogate" mode of operations, the sector being interrogated must be kept to an absolute minimum, and the pilot will not "push to interrogate" more than once per 20 seconds.
- (5) Airborne testing using Mode-S interrogations is not supportable unless testing can be accomplished using an II code above 15. The use of Mode-S with any II code between 0 and 15 is prohibited. 1090 MHZ responses to Mode-S interrogations from ground air traffic control is acceptable.